1. Solve the equation below. Then, choose the interval that contains the solution.

$$-7(-12x + 16) = -11(-18x + 10)$$

A. $x \in [-1.11, 0.07]$

B. $x \in [1.75, 2.12]$

C. $x \in [0.51, 1.13]$

D. $x \in [-2.42, -1.94]$

E. There are no real solutions.

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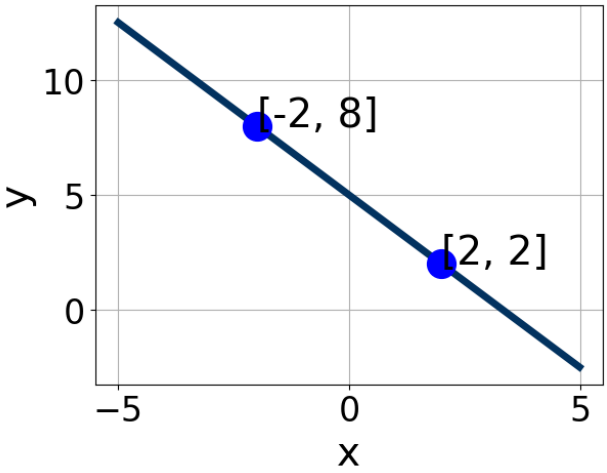
2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2.19, 3.42]$, $B \in [-2.33, -1.88]$, and $C \in [-10, -7]$

B. $A \in [-3.05, -2.74]$, $B \in [-2.33, -1.88]$, and $C \in [-10, -7]$

C. $A \in [1.38, 1.84]$, $B \in [-1.72, -0.83]$, and $C \in [-8, -1]$

D. $A \in [1.38, 1.84]$, $B \in [0.74, 1.51]$, and $C \in [0, 8]$

E. $A \in [2.19, 3.42]$, $B \in [1.77, 2.43]$, and $C \in [10, 12]$

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3. Solve the equation below. Then, choose the interval that contains the

solution.

$$-8(-7x - 19) = -4(-14x + 9)$$

A. $x \in [-0.3, 0.5]$

B. $x \in [-1.4, -0.4]$

C. $x \in [-0.3, 0.5]$

D. $x \in [-0.3, 0.5]$

E. There are no real solutions.

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4. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-7x - 4}{6} - \frac{-3x - 9}{2} = \frac{-9x - 5}{8}$$

A. $x \in [-8.7, -6.2]$

B. $x \in [-3.8, -1.8]$

C. $x \in [1.8, 3.5]$

D. $x \in [-1.1, -0.6]$

E. There are no real solutions.

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5. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(2, 5) \text{ and } (-2, 10)$$

A. $m \in [-1.7, -0.9]$ $b \in [7.2, 8.2]$

B. $m \in [-1.7, -0.9]$ $b \in [2.1, 5.2]$

C. $m \in [-1.7, -0.9]$ $b \in [10, 12.1]$

D. $m \in [-1.7, -0.9]$ $b \in [-10, -6]$

E. $m \in [-0.4, 2.5]$ $b \in [12.3, 16.7]$

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6. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

   Parallel to $3x - 7y = 13$ and passing through the point $(-5, 6)$.

   A. $m \in [-0.11, 2.33]$ $b \in [11, 15]$

   B. $m \in [-0.11, 2.33]$ $b \in [7.14, 10.14]$

   C. $m \in [2.01, 2.58]$ $b \in [7.14, 10.14]$

   D. $m \in [-0.11, 2.33]$ $b \in [-12.14, -6.14]$

   E. $m \in [-0.52, 0.19]$ $b \in [-3.14, 5.86]$

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7. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{9x + 7}{6} - \frac{-3x + 4}{5} = \frac{6x + 5}{3}$$

   A. $x \in [-0.78, 4.22]$

   B. $x \in [12, 15]$

   C. $x \in [-3, -2]$

   D. $x \in [19, 26]$

   E. There are no real solutions.

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8. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

   $(-4, -3)$ and $(-11, -9)$

   A. $m \in [-2.37, 0.6]$ $b \in [-20.1, -18]$

   B. $m \in [0.58, 2.01]$ $b \in [-1.51, -0.35]$

   C. $m \in [0.58, 2.01]$ $b \in [1.45, 2.02]$

   D. $m \in [0.58, 2.01]$ $b \in [0.67, 1.58]$

E. $m \in [0.58, 2.01]$ $b \in [-0.22, 0.91]$

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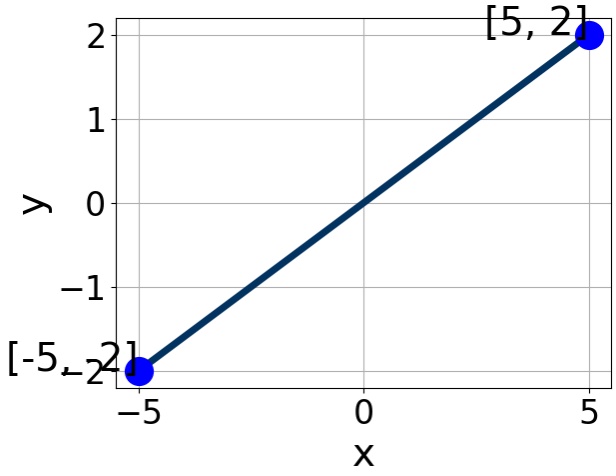
9. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.2, 0.4]$, $B \in [0.08, 1.32]$, and $C \in [-1, 5]$

B. $A \in [1.8, 3.9]$, $B \in [-5.9, -3.95]$, and $C \in [-1, 5]$

C. $A \in [1.8, 3.9]$, $B \in [3.04, 5.46]$, and $C \in [-1, 5]$

D. $A \in [-1.2, 0.4]$, $B \in [-1.68, -0.26]$, and $C \in [-1, 5]$

E. $A \in [-2.8, -0.5]$, $B \in [3.04, 5.46]$, and $C \in [-1, 5]$

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10. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $3x + 5y = 8$ and passing through the point $(9, -7)$.

A. $m \in [-2.89, -0.85]$ $b \in [-4.4, -0.3]$

B. $m \in [-1.24, -0.43]$ $b \in [-4.4, -0.3]$

C. $m \in [-1.24, -0.43]$ $b \in [0.6, 3.5]$

D. $m \in [-1.24, -0.43]$ $b \in [-16.6, -15.7]$

E. $m \in [-0.11, 1.28]$ $b \in [-12.5, -11.9]$
